

## Amendments to the Abstract

Please amend the abstract as follows.

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### ABSTRACT OF THE DISCLOSURE

B1  
Brightness information of, ~~e.g. for example,~~ an average value of brightnesses at an X-ray image of a first connected part when an electronic component is mounted onto only one face of a printed board is obtained. Binary images of an X-ray image of the board with the electronic components mounted to both faces are formed by an upper and a lower levels relative to the brightness information. The binary images are synthesized with each other so as to extract an image of only a second connected part. The image of only the second connected part can be obtained in this manner on the basis of the X-ray image of the double face-mounted board, so that an accuracy for connection inspection is improved ~~in comparison with the related art~~. Also, a relationship between a density in the X-ray image of the connected part and a thickness of the connected part is obtained beforehand, based on which a plurality of thickness images are obtained for a plurality of X-ray images of different image storage times. The connected part can be inspected by synthesizing the images.

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